

ABSTRACT

A pulsation reducing system for a fuel line of an internal combustion engine, especially for an automotive engine equipped with an electronic fuel injection system is provided. The system includes a fuel delivery rail, a fuel tank, and a longitudinal main fuel pipe. A first flexible tube is arranged between the fuel delivery rail and the main fuel pipe. A second flexible tube is arranged between the main fuel pipe and the fuel tank. A small-ID tubular portion is arranged within the first tube or near the connecting portion of the first tube. The inside diameter of the small-ID tubular portion is smaller than that of the main fuel pipe. The length of the small-ID tubular portion is set between 10 to 50 times the inside diameter of the small-ID tubular portion itself. Thus, standing waves and resultant pressure pulsations caused by the fuel delivery rail are reduced by the small-ID tubular portion.